AUTHOR INDEX – Volume 124

ANDREWS, A. M., recent developments in intrinsic semiconductor detectors, 102
ARRINGTON, D. C., LWIR detector behavior at very low frequencies, 57

BARNEY, J., infrared landing system for a mini remotely piloted vehicle, 214
BARTELL, F. O., an unheated four-bar infrared test target, 198
BLANCHARD, W. ANTHONY, ecosystem alteration detection by aerial color infrared photography and satellite multispectral scanner, 221
BOESE, R. W., Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
BRASHER, W. E., CCD signal processor for point target detection/location systems, 33
BRILL, HENRY L., an unconventional chopper for infrared applications, 205
BROUDY, R. M., advances in HgCdTe infrared focal plane technology, 62
——, review of HgCdTe infrared detector technology, 80
BROWN, F. GERALD, Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
BUSS, D. D., CCD signal processor for point target detection/location systems, 33

CHEEK, T. F., Jr., CCD signal processor for point target detection/location systems, 33
CORBETT, T. J., digital scan conversion for a 3 to 5 micrometer FLIR system, 190

DeBELL, A. G., an unheated four-bar infrared test target, 198

EISENMAN, W. L., LWIR detector behavior at very low frequencies, 57
ELLINGSON, W. A., a quantitative determination of surface temperatures using an infrared camera, 228
EVERSOLE, W. L., CCD signal processor for point target detection/location systems, 33

FANNIN, B. B., an unheated four-bar infrared test target, 198
FRAZIER, E. N., infrared radiation of the zodiacal light, 139
FRODSHAM, D. GARY, short wavelength rocketborne infrared spectrometer, 236
——, SPIRE–spectral infrared experiment, 118

GILL, C., digital scan conversion for a 3 to 5 micrometer FLIR system, 190
GILLAND, JERRY, Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
GIORGI, C. M., an unheated four-bar infrared test target, 198
GOW, C. E., astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, 156

HASSIG, RALPH, Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
HEINSHEIMER, THOMAS F., high-precision infrared sky survey at wavelength 2.7 μm, 125
HEWES, C. R., CCD signal processor for point target detection/location systems, 33
HODOR, J., infrared landing system for a mini remotely piloted vehicle, 214
HONEYCUTT, R. K., astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, 156
HOUGHTON, J. T., the pressure modulator radiometer (PMR), 165
HSIEH, C. K., a quantitative determination of surface temperatures using an infrared camera, 228

KAPLAN, HERBERT, ThermAtrace–a new superposition technique provides composite thermal/visual displays, 174

LESH, JANET ROUNTREE, high-precision infrared sky survey at wavelength 2.7 μm, 125
LEVINSTEIN, HENRY, state of the art of infrared detectors, 52
LIANG, ALEXANDER C., technique for infrared background suppression, 2
LLOYD, A., digital scan conversion for a 3 to 5 micrometer FLIR system, 190
LONGO, J. T., recent developments in intrinsic semiconductor detectors, 102

MARAN, STEPHEN P., high-precision infrared sky survey at wavelength 2.7 μm, 125
MAVROTHERIS, NICHOLAS A., detection of heat loss through use of aerial infrared imagery, 183
McCAUGHEY, DENNIS, optical mask system of target to background discrimination, 45
MUENCHOW, RALPH, role of the USAF AN/AAD-5 infrared reconnaissance set in pollution detection and fuel conservation, 181

NADILE, R. M., SPIRE - spectral infrared experiment, 118
NAGY, THERESA A., high-precision infrared sky survey at wavelength 2.7 μm, 125
NELSON, RICHARD D., infrared solid state imaging arrays, 91
NISSLEY, J. S., an unheated four-bar infrared test target, 198

ODELL, E. L. G., the pressure modulator radiometer (PMR), 165
OLSEN, D. E., recent developments in intrinsic semiconductor detectors, 102

PASSAUER, JAMES L., detection of heat loss through use of aerial infrared imagery, 183
PAULSON, R., infrared landing system for a mini remotely piloted vehicle, 214
PELLICORI, S. F., optical crosstalk in infrared detector arrays, 69
POHLMAN, R. T., noise effects in a staring mosaic sensor mounted on a moving platform 10
PRICE, E., infrared landing system for a mini remotely piloted vehicle, 214
PRUETT, GEORGE R., system limitations of infrared detectors, 77

RAPIER, J. L., background clutter leakage estimation in a mosaic sensor whose field of view moves relative to the background, 23
REICH, STANLEY M., unconventional chopper for infrared applications, 205
REINE, M. B., advances in HgCdTe infrared focal plane technology, 62
——, review of HgCdTe infrared detector technology, 80

SANDFORD, M. T., astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, 156
SMITH, M. C., processing techniques for infrared astronomical surveys, 147
SPIRO, IRVING J., Introduction,
STAIR, A. T., Jr., SPIRE – spectral infrared experiment, 118
SWEENEY, LEEROY H., high-precision infrared sky survey at wavelength 2.7 μm, 125

TRACY, J. M., recent developments in intrinsic semiconductor detectors, 102

WANG, C. C., recent developments in intrinsic semiconductor detectors, 102
WEBSTER, D. C., dynamic behavior of a fixed earth scene as viewed by a satellite-borne staring mosaic sensor, 17
WEPPNER, WILLIAM G., balloon altitude mosaic measurements (BAMM) program, 41
WHEELER, N. B., SPIRE – spectral infrared experiment, 118
WINTER, E. M., processing techniques for infrared astronomical surveys, 147
WOLFE, W. L., an unheated four-bar infrared test target, 198
WURTZ, H. P., optical crosstalk in infrared detector arrays, 69
WYATT, CLAIR L., short wavelength rocketborne infrared spectrometer, 236
——, SPIRE – spectral infrared experiment, 118
YATES, FRANK F., high-precision infrared sky survey at wavelength 2.7 μm, 125

AUTHOR INDEX – Volume 124

ANDREWS, A. M., recent developments in intrinsic semiconductor detectors, 102
ARRINGTON, D. C., LWIR detector behavior at very low frequencies, 57

BARNEY, J., infrared landing system for a mini remotely piloted vehicle, 214
BARTELL, F. O., an unheated four-bar infrared test target, 198
BLANCHARD, W. ANTHONY, ecosystem alteration detection by aerial color infrared photography and satellite multispectral scanner, 221
BOESE, R. W., Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
BRASHER, W. E., CCD signal processor for point target detection/location systems, 33
BRILL, HENRY L., an unconventional chopper for infrared applications, 205
BROUDY, R. M., advances in HgCdTe infrared focal plane technology, 62
——, review of HgCdTe infrared detector technology, 80
BROWN, F. GERALD, Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
BUSS, D. D., CCD signal processor for point target detection/location systems, 33

CHEEK, T. F., Jr., CCD signal processor for point target detection/location systems, 33
CORBETT, T. J., digital scan conversion for a 3 to 5 micrometer FLIR system, 190

DeBELL, A. G., an unheated four-bar infrared test target, 198

EISENMAN, W. L., LWIR detector behavior at very low frequencies, 57
ELLINGSON, W. A., a quantitative determination of surface temperatures using an infrared camera, 228
EVERSOLE, W. L., CCD signal processor for point target detection/location systems, 33

FANNIN, B. B., an unheated four-bar infrared test target, 198
FRAZIER, E. N., infrared radiation of the zodiacal light, 139
FRODSHAM, D. GARY, short wavelength rocketborne infrared spectrometer, 236
——, SPIRE–spectral infrared experiment, 118

GILL, C., digital scan conversion for a 3 to 5 micrometer FLIR system, 190
GILLAND, JERRY, Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
GIORGI, C. M., an unheated four-bar infrared test target, 198
GOW, C. E., astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, 156

HASSIG, RALPH, Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
HEINSHEIMER, THOMAS F., high-precision infrared sky survey at wavelength 2.7 μm, 125
HEWES, C. R., CCD signal processor for point target detection/location systems, 33
HODOR, J., infrared landing system for a mini remotely piloted vehicle, 214
HONEYCUTT, R. K., astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, 156
HOUGHTON, J. T., the pressure modulator radiometer (PMR), 165
HSIEH, C. K., a quantitative determination of surface temperatures using an infrared camera, 228

KAPLAN, HERBERT, ThermAtrace–a new superposition technique provides composite thermal/visual displays, 174

LESH, JANET ROUNTREE, high-precision infrared sky survey at wavelength 2.7 μm, 125
LEVINSTEIN, HENRY, state of the art of infrared detectors, 52
LIANG, ALEXANDER C., technique for infrared background suppression, 2
LLOYD, A., digital scan conversion for a 3 to 5 micrometer FLIR system, 190
LONGO, J. T., recent developments in intrinsic semiconductor detectors, 102

MARAN, STEPHEN P., high-precision infrared sky survey at wavelength 2.7 μm, 125
MAVROTHERIS, NICHOLAS A., detection of heat loss through use of aerial infrared imagery, 183
McCAUGHEY, DENNIS, optical mask system of target to background discrimination, 45
MUENCHOW, RALPH, role of the USAF AN/AAD-5 infrared reconnaissance set in pollution detection and fuel conservation, 181

NADILE, R. M., SPIRE - spectral infrared experiment, 118
NAGY, THERESA A., high-precision infrared sky survey at wavelength 2.7 μm, 125
NELSON, RICHARD D., infrared solid state imaging arrays, 91
NISSLEY, J. S., an unheated four-bar infrared test target, 198

ODELL, E. L. G., the pressure modulator radiometer (PMR), 165
OLSEN, D. E., recent developments in intrinsic semiconductor detectors, 102

PASSAUER, JAMES L., detection of heat loss through use of aerial infrared imagery, 183
PAULSON, R., infrared landing system for a mini remotely piloted vehicle, 214
PELLICORI, S. F., optical crosstalk in infrared detector arrays, 69
POHLMAN, R. T., noise effects in a staring mosaic sensor mounted on a moving platform 10
PRICE, E., infrared landing system for a mini remotely piloted vehicle, 214
PRUETT, GEORGE R., system limitations of infrared detectors, 77

RAPIER, J. L., background clutter leakage estimation in a mosaic sensor whose field of view moves relative to the background, 23
REICH, STANLEY M., unconventional chopper for infrared applications, 205
REINE, M. B., advances in HgCdTe infrared focal plane technology, 62
——, review of HgCdTe infrared detector technology, 80

SANDFORD, M. T., astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, 156
SMITH, M. C., processing techniques for infrared astronomical surveys, 147
SPIRO, IRVING J., Introduction,
STAIR, A. T., Jr., SPIRE – spectral infrared experiment, 118
SWEENEY, LEEROY H., high-precision infrared sky survey at wavelength 2.7 μm, 125

TRACY, J. M., recent developments in intrinsic semiconductor detectors, 102

WANG, C. C., recent developments in intrinsic semiconductor detectors, 102
WEBSTER, D. C., dynamic behavior of a fixed earth scene as viewed by a satellite-borne staring mosaic sensor, 17
WEPPNER, WILLIAM G., balloon altitude mosaic measurements (BAMM) program, 41
WHEELER, N. B., SPIRE – spectral infrared experiment, 118
WINTER, E. M., processing techniques for infrared astronomical surveys, 147
WOLFE, W. L., an unheated four-bar infrared test target, 198
WURTZ, H. P., optical crosstalk in infrared detector arrays, 69
WYATT, CLAIR L., short wavelength rocketborne infrared spectrometer, 236
——, SPIRE – spectral infrared experiment, 118
YATES, FRANK F., high-precision infrared sky survey at wavelength 2.7 μm, 125

SUBJECT INDEX – Volume 124

AN-AAD-5 infrared reconnaissance set in pollution detection and fuel conservation, role of the USAF, 181
Advances in HgCdTe infrared focal plane technology, 62
Aerial color infrared photography and satellite multispectral scanner, ecosystem alteration detection by, 221
Aerial infrared imagery, detection of heat loss through use of, 183
Alteration detection by aerial color infrared photography and satellite multispectral scanner, ecosystem, 221
Altitude mosaic measurements (BAMM) program, balloon, 41
Application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, astronomical, 156
Applications, an unconventional chopper for infrared, 205
Arrays, infrared solid state imaging, 91
Arrays, optical crosstalk in infrared detector, 69
Astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television detector, 156
Astronomical surveys, processing techniques for infrared, 147

(BAMM) program, balloon altitude mosaic measurements, 41
Background, background clutter leakage estimation in a mosaic sensor whose field of view moves relative to the, 23
Background clutter leakage estimation in a mosaic sensor whose field of view moves relative to the background, 23
Background discrimination, an optical mask system of target to, 45
Background suppression, a technique for infrared, 2
Balloon altitude mosaic measurements (BAMM) program, 41
Behavior of a fixed earth scene as viewed by a satellite-borne staring mosaic sensor, the dynamic, 17
Behavior at very low frequencies, LWIR detector, 57

CCD signal processor for point target detection/location systems, 33
Camera, a quantitative determination of surface temperatures using an infrared, 228
Chopper for infrared applications, an unconventional, 205
Clutter leakage estimation in a mosaic sensor whose field of view moves relative to the background, background, 23
Color infrared photography and satellite multispectral scanner, ecosystem alteration detection by aerial, 221
Composite thermal/visual displays, ThermAtrace—new superposition technique provides, 174
Conservation, role of the USAF AN/AAD-5 infrared reconnaissance set in pollution detection and fuel, 181
Conversion for a 3 to 5 micrometer FLIR system, digital scan, 190
Crosstalk in infrared detector arrays, optical, 69

Detection by aerial color infrared photography and satellite multispectral scanner, ecosystem alteration, 221
Detection and fuel conservation, role of the USAF AN/AAD-5 infrared reconnaissance set in pollution, 181
Detection of heat loss through use of aerial infrared imagery, 183
Detection/location systems, CCD signal processor for point target, 33
Detector arrays, optical crosstalk in infrared, 69
Detector, astronomical application of an S-1 response I-SIT (intensified-silicon intensity target) television, 156
Detector behavior at very low frequencies, LWIR, 57
Detector technology, review of HgCdTe infrared, 80
Detectors, recent developments in intrinsic semiconductor, 102
Detectors, state of the art of infrared, 52
Detectors, system limitations of infrared, 77
Determination of surface temperatures using an infrared camera, a quantitative, 228
Developments in intrinsic semiconductor detectors, recent, 102
Digital scan conversion for a 3 to 5 micrometer FLIR system, 190
Discrimination, an optical mask system of target to background, 45
Displays, ThermAtrace—new superposition technique provides composite thermal/visual, 174
Dynamic behavior of a fixed earth scene as viewed by a satellite-borne staring mosaic sensor, 17

Earth scene as viewed by a satellite-borne staring mosaic sensor, dynamic behavior of a fixed, 17
Ecosystem alteration detection by aerial color infrared photography and satellite multispectral scanner, 221
Effects in a staring mosaic sensor mounted on a moving platform, noise, 10
Estimation in a mosaic sensor whose field of view moves relative to the background, background clutter leakage, 23
Experiment, SPIRE – spectral infrared, 118

FLIR system, digital scan conversion for a 3 to 5 micrometer, 190
Field of view moves relative to the background, background clutter leakage estimation in a mosaic sensor whose, 23
Fixed earth scene as viewed by a satellite-borne staring mosaic sensor, the dynamic behavior of a, 17
Focal plane technology, advances in HgCdTe infrared, 62
Four-bar infrared test target, an unheated, 198
Frequencies, LWIR detector behavior at very low, 57
Fuel conservation, role of the USAF AN/AAD-5 infrared reconnaissance set in pollution detection and, 181

HgCdTe infrared detector technology, review of, 80
HgCdTe infrared focal plane technology, advances in, 62
Heat losses through use of aerial infrared imagery, detection of, 183
High-precision infrared sky survey at wavelength 2.7 μm, 125

I-SIT (intensified-silicon intensity target) television detector, astronomical application of an S-1 response, 156
Imagery, detection of heat loss through the use of aerial infrared, 183
Imaging arrays, infrared solid state, 91
Infrared applications, an unconventional chopper for, 205
Infrared astronomical surveys, processing techniques for, 147
Infrared background suppression, technique for, 2
Infrared camera, quantitative determination of surface temperatures using, 228
Infrared detector arrays, optical crosstalk in, 69
Infrared detector technology, review of HgCdTe infrared, 80
Infrared detectors, system limitations of, 77
Infrared detectors, state of the art of, 52
Infrared experiment, SPIRE – spectral, 118
Infrared focal plane technology, advances in HgCdTe, 62
Infrared imagery, detection of heat loss through use of aerial, 183
Infrared landing system for a mini remotely piloted vehicle, 214
Infrared photography and satellite multispectral scanner, ecosystem alteration detection by aerial color, 221
Infrared radiation of the zodiacal light, 139
Infrared radiometer (LIR) optical system, Pioneer-Venus large probe, 132
Infrared reconnaissance set in pollution detection and fuel conservation, role of the USAF AN/AAD-5, 181
Infrared sky survey at wavelength 2.7 μm, high-precision, 125
Infrared solid state imaging arrays, 91
Infrared spectrometer, short wavelength rocketborne, 236
Infrared test target, an unheated four-bar, 198
(intensified-silicon intensity target) television detector, astronomical application of an S-1 response I-SIT, 156
Intrinsic semiconductor detectors, recent developments in, 102

LWIR detector behavior at very low frequencies, 57
Landing system for a mini remotely piloted vehicle, infrared, 214
Large probe infrared radiometer (LIR) optical system, Pioneer-Venus, 132
Leakage estimation in a mosaic sensor whose field of view moves relative to the background, background clutter, 23
Light, infrared radiation of the zodiacal, 139
Limitations of infrared detectors, system, 77
Loss through use of aerial infrared imagery, detection of heat, 183
Low frequencies, LWIR detector behavior at very, 57

Mask system of target to background discrimination, an optical, 45
Measurements (BAMM) program, balloon altitude mosaic, 41
Mini remotely piloted vehicle, infrared landing system for a, 214
Modulator radiometer (PMR), the pressure, 165
Mosaid measurements (BAMM) program, balloon altitude, 41
Mosaic sensor, dynamic behavior of a fixed earth scene as viewed by a satellite-borne staring, 17
Mosaic sensor mounted on a moving platform, noise effects in a staring, 10

Mosaic sensor whose field of view moves relative to the background, background clutter leakage estimation in a, 23
Moving platform, noise effects in a staring mosaic sensor mounted on a, 10
Multispectral scanner, ecosystem alteration detection by aerial color infrared photography and satellite, 221

Noise effects in a staring mosaic sensor mounted on a moving platform, 10

Optical crosstalk in infrared detector arrays, 69
Optical mask system of target to background discrimination, 45
Optical system, Pioneer-Venus large probe infrared radiometer (LIR), 132

(PMR), the pressure modulator radiometer, 165
Photography and satellite multispectral scanner, ecosystem alteration detection by aerial color infrared, 221
Pioneer-Venus large probe infrared radiometer (LIR) optical system, 132
Plane technology, advances in HgCdTe infrared focal, 62
Platform, noise effects in a staring mosaic sensor mounted on a moving, 10
Point target detection/location systems, CCD signal processor for, 33
Pollution detection and fuel conservation, role of the USAF AN/AAD-5 infrared reconnaissance set in, 181
Pressure modulator radiometer (PMR), 165
Probe infrared radiometer (LIR) optical system, Pioneer-Venus large, 132
Processing techniques for infrared astronomical surveys, 147
Processor for point target detection/location systems, CCD signal, 33

Quantitative determination of surface temperatures using an infrared camera,228

Radiation of the zodiacal light, infrared, 139
Radiometer (LIR) optical system, Pioneer-Venus large probe infrared, 132
Radiometer (PMR), the pressure modulator, 165
Recent developments in intrinsic semiconductor detectors, 102
Reconnaissance set in pollution detection and fuel conservation, role of the USAF AN/AAD-5 infrared, 181
Remotely piloted vehicle, infrared landing system for a mini, 214
Review of HgCdTe infrared detector technology, 80
Rocketborne infrared spectrometer, short wavelength, 236
Role of the USAF AN/AAD-5 infrared reconnaissance set in pollution detection and fuel conservation, 181

S-1 response I-SIT (intensified-silicon intensity target) television detector, astronomical application of an, 156
SPIRE – specral infrared experiment, 118
Satellite-borne staring mosaic sensor, dynamic behavior of a fixed earth scene as viewed by a, 17
Satellite multispectral scanner, ecosystem alteration detection by aerial color infrared photography and, 221
Scan conversion for a 3 to 5 micrometer FLIR system, digital, 190
Scanner, ecosystem alteration detection by aerial color infrared photography and satellite multispectral, 221
Scene as viewed by a satellite-borne staring mosaic sensor, dynamic behavior of a fixed earth, 17
Semiconductor detectors, recent developments in intrinsic, 102
Sensor, dynamic behavior of a fixed earth scene as viewed by a satellite-borne staring mosaic, 17
Sensor mounted on a moving platform, noise effects in a staring mosaic, 10
Sensor whose field of view moves relative to the background, background clutter leakage estimation in a mosaic, 23
Short wavelength rocketborne infrared spectrometer, 236
Signal processor for point target detection/location systems, CCD, 33
Silicon intensity target) television detector, astronomical application of an S-1 response I-SIT (intensified-, 156
Sky survey at wavelength 2.7 μm, high-precision infrared, 125
Solid state imaging arrays, infrared, 91
Spectral infrared experiment, SPIRE–, 118
Spectrometer, short wavelength rocketborne infrared, 236
Staring mosaic sensor, dynamic behavior of a fixed earth scene as viewed by a satellite-borne, 17
Staring mosaic sensor mounted on a moving platform, noise effects in a, 10
State of the art of infrared detectors, 52
Superposition technique provides composite thermal/visual displays, ThermAtrace – a new, 174
Suppression, a technique for infrared background, 2
Surface temperatures using infrared camera, quantitative determination of, 228
Survey at wavelength 2.7 μm, high-precision infrared sky, 125
Surveys, processing techniques for infrared astronomical, 147
System, digital scan conversion for a 3 to 5 micrometer FLIR, 190
System limitations of infrared detectors, 77
System for a mini remotely piloted vehicle, infrared landing, 214
System, Pioneer-Venus large probe infrared radiometer (LIR) optical, 132
System of target to background discrimination, an optical mask, 45
Systems, CCD signal processor for point target detection/location, 33

Target to background discrimination, an optical mask system of, 45
Target detection/location systems, CCD signal processor for point, 33
Target) television detector, astronomical application of an S-1 response I-SIT (intensified-silicon intensity, 156
Target, an unheated four-bar infrared test, 198
Technique for infrared background suppression, 2
Technique provides composite thermal/visual displays, ThermAtrace–a new superposition, 174
Techniques for infrared astronomical surveys, processing, 147
Technology, advances in HgCdTe infrared focal plane, 62
Technology, a review of HgCdTe infrared detector, 80
Television detector, astronomical application of an S-1 response I-SIT (intensified-silicon intensity target), 156
Temperatures using infrared camera, quantitative determination of surface, 228
Test target, an unheated four-bar infrared, 198
Thermal/visual displays, ThermAtrace–a new superposition technique provides composite, 174
ThermAtrace–new superposition technique provides composite thermal/visual displays, 174

USAF AN/AAD-5 infrared reconnaissance set in pollution detection and fuel conservation, role of the, 181
Unconventional chopper for infrared applications, 205
Unheated four-bar infrared test target, 198

Vehicle, infrared landing system for a mini remotely piloted, 214
Very low frequencies, LWIR detector behavior at, 57
Visual displays, ThermAtrace–new superposition technique provides composite thermal/, 174

Wavelength rocketborne infrared spectrometer, short, 236
Wavelength 2.7 μm, high-precision infrared sky survey at, 125

Zodiacal light, infrared radiation of the, 139